FIRE-PROOF CONSTRUCTION.—FOX and BARRETT'S PATENT.—Timber is the material of the ground construction is shown by the recently published returns of fires in London during the past year, by which it appears that there is a considerable increase as compared with former years, the number actually exceeding 1,000, or an average of three per day.

This result affords strong corroboration of a fact stated upon high authority, THAT NO BUILDING IN WHICH TIMBER JOISTS ARE USED IS PRACTICALLY SECURE FROM THE DANGER OF FIRE; and when to this fact it is added that timber is also liable to dry-rot and the ravages of insects and vermin, for which it affords ready harbour, the mischief arising from its extensive use will be sufficiently apparent.

It becomes, then, worth the attention of those who are interested in building, to inquire whether materials of an imperishable nature cannot be substituted for timber in the construction of floors, &c., without involving additional cost; and attention is invited to a number of buildings of all classes, either finished or in course of erection, upon the above improved system, in which joists, either of rolled or cast-iron, are substituted for timber, together with a similar superstructure of concrete, adapted to receive a finished surface of floor or roof of any kind.

Among the buildings at present in progress in London on this system is the new GUY'S HOSPITAL, an extensive range providing accommodation for 400 additional beds; and for buildings of this description and magnitude as well as for PRIVATE DWELLING-HOUSES, OFFICES, WAREHOUSES, &c. it possesses very great advantages.

A detailed description of the system, estimates, and all further information, may be obtained on application to the Proprietors of the patent.

Mr. BARRETT (late Fox and Barrett),
13, York-buildings, Adelphi.

Where offices form part of a building erected on this principle, and where specimens of the rolled iron joists may be seen.

TO WATER COMPANIES AND PLUMBERS.

HIGH-PRESSURE COCKS and CLOSETS.

The Health of Towns Commissioners having recommended the adoption of the high-pressure principle in all towns, WARNER'S HIGH-PRESSURE COCK is recommended as a Cock free from leakage, and applicable for all purposes and situations. Patent Closets and Basins with supply-valve for attaching direct to main pipes without a cistern, cocks, or wire.

LEAD, IRON, and TIN PIPE.

JOHN WARNER and SONS, Manufacturers, 8, Crescent, Jewin-street, London.

STOCK & SON'S SOIL-PAN SERVICE-BOX.—The object of this contrivance is to facilitate the introduction of sanitary improvements into the dwellings of the working classes, by the adoption of such an arrangement of cheap soil-pan apparatus as will enable the "constant supply system" of water service to be carried out, by preventing the contamination of water in pipes of this description, to which water companies now so strongly and so properly object. By the use of this service-box an ample supply of water is obtained, without the possibility of its being wasted by stopping the valve, weighting the handle, or by other means. It is so constructed that, so long as the discharge-valve remains open, a further supply cannot enter the service-pipe from the main.—Drawings and descriptions may be obtained from STOCK and SON, Manufacturers of Plumbers' Brass-work, Sanitary Closets, Sanitary Screw-down Taps, Fire Plugs, Gas Fittings, and Church Furniture in iron and brass, Temple-street, Birmingham.

JOHN DOULTON, Jun.

ST. HELEN'S, LANCASHIRE.

The most economical and efficient system of drainage reformed with

DOULTON'S STONE-WARE PIPES.

Testimonials as to their superiority have been received from the Borough Engineers of Liverpool, Glasgow, and other cities.

FIRE-CLAY FLUE PIPES.
TERRA COTTA CHIMNEY TOPS, &c. &c.
WAREHOUSES, 76, SOHO-STREET, LIVERPOOL.

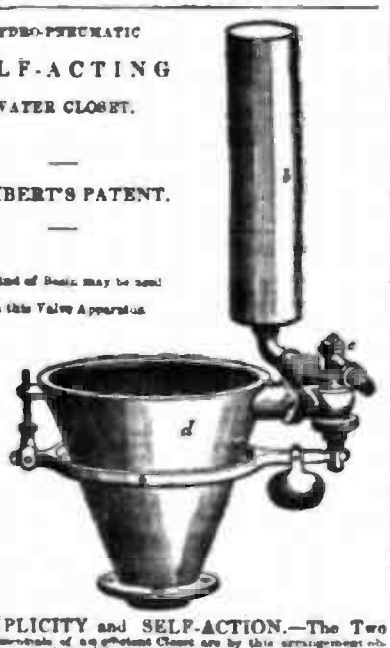
HYDRO-PNEUMATIC

SELF-ACTING

WATER CLOSET.

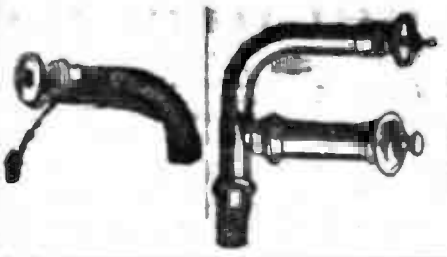
LAMBERT'S PATENT.

Any kind of Basin may be used with this Valve Apparatus



SIMPLICITY and SELF-ACTION.—The Two Essentials of an efficient Closet are by this arrangement obtained at the LOWEST POSSIBLE COST. The descent of the soil (not more than a quarter of an inch) is scarcely perceptible, and produces no inconvenience in use. It is complete in itself, very easily fixed, and dispenses entirely with Cranks, Rods, Wires, &c. The Hand-Valve is connected to the Main Supply-pipe, or to a Cistern, no matter how great the pressure, or how far distant.

THOMAS LAMBERT and SON,
Brass Founders, &c. Short-street, New Cut, Lambeth.



WHISHAW'S REGISTERED

IMPROVED TELEKOUPHONON

FOR SPEAKING-PIPES.

By means of this invention speaking-pipes may be rendered more generally available for Hotels, Buildings, Club Houses, Noblemen's Mansions, Offices, Warehouses, &c. &c. It consists of a whistle-mouthpiece of ivory, wood, or metal, with an india-rubber attached, by means of which, in case of two or more speaking-tubes being carried into one room, the mouthpiece from which a whistle proceeds is readily ascertained.

The newly-registered invention also embraces a plan (as shown in the right-hand figure annexed) to supersede the necessity of blowing into a speaking-pipe when the whistle at the further end is required to be sounded.

Manufactured solely by
KEPP and COMPANY, 81, 82, and 83, Chandos-street, Charing-cross;
And to be had retail of all respectable ironmongers.

CHEAP, LIGHT, AND DURABLE ROOFING.

CROGGON'S PATENT ASPHALTE ROOFING FELT, has been extensively used and pronounced efficient, and particularly applicable for warm climates.

1st. It is a non-conductor.—2nd. It is portable, being packed in rolls, and not liable to damage in carriage.—3rd. It effects a saving of half the timber usually required.—4th. It can be easily applied by any experienced person.—5th. From its lightness, weighing only about 40 lbs. to the square of 100 feet, the cost of carriage is small.—6th. Under slate, metal, or tiles, it is a most effective non-conductor.

INODOROUS FELT, for damp walls and for damp floors, under carpets and floor cloths. Price ONE PENNY per Square Foot.

CHIMNEY and CLAY PATENT FELTED SHEATHING, for Covering Ships' Bottoms, &c., and deadening Sound.

DRY HAIR FELT, for Covering Steam Boilers, Pipes, &c., preventing the radiation of Heat, saving 25 per cent. of Fuel.

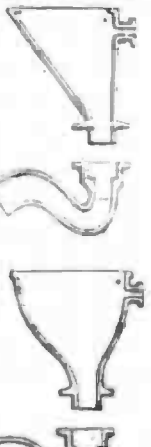
Samples, testimonials, and full instructions, on application to CROGGON and CO. 2, DOWGATE-HILL, LONDON.

DOULTON AND WATTS'S

REGISTERED CLOSET PANS IN

ENAMELLED STONE WARE,

LAMBETH POTTERY, LONDON.



These Closet Pans are manufactured in a new kind of stone ware, HIGHLY GLAZED, vitreous, of a light colour, are much improved in form, and are used and recommended by the engineers connected with the General Board of Health.

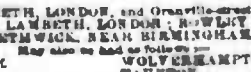
The Traps are smaller at the inlet, gradually enlarging towards the outlet, as a security against the introduction of improper substances into the drain.

They may also be had turned down.

PRICE 7s. 6d. EACH,

The same as for ordinary stone ware, and may be had fitted with copper fans of the best construction at 1s. 3d. each extra.

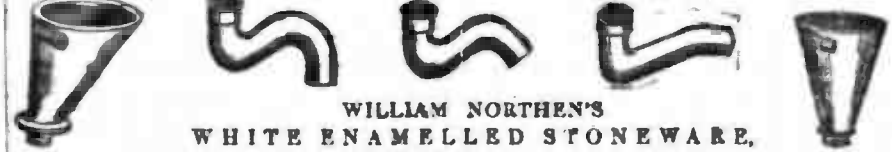
HENRY DOULTON and CO.'S DRAIN PIPES in GLAZED STONE WARE.



OFFICES—HIGH-STREET, LAMBETH, LONDON, and Granville-street Wharf, Broad-street, Birmingham.
MANUFACTORIES—HIGH-STREET, LAMBETH, LONDON; ROWLEY REGIS, STAFFORDSHIRE; AND SMETHWICK, NEAR BIRMINGHAM.
May also be had as follows:—

BIRMINGHAM	Granville-street Wharf.	WOLVERHAMPTON	Mr. R. Sheldon.
GLOUCESTER	Mr. James Knowles.	TAUNTON	Mr. Geo. Pell and Co.
NORTHAMPTON	Messrs. Adkins and Greenough.	STRATFORD-on-AVON	Messrs. J. Cox and Son.
WORCESTER	Messrs. Rowland and Son.	JERSEY	Mr. John Le Cras, Charing-cross.
COVENTRY	Mr. J. Alcock.	WARWICK	Mr. G. Lawrence, messenger Mills Wharf.
CHELTENHAM	Mr. J. Blizard.	DERBY	Messrs. Tomlinson and Harpur.
LEAMINGTON	Mr. Chas. Holmes, Warwick-street.	BATH	Mr. Wm. Davey, Abbey-green.
LEICESTER	Messrs. J. and W. Jackson.	NORWICH	Mr. J. Morris, King-street.
YORK	Mr. M. Terrill Mickletown.	SOUTHAMPTON	Mr. W. Cramotins, Bortsea.

STRAIGHT TUBES WITH SOCKET JOINTS from 1 inch to 24 inches in diameter. BENDS, JUNCTIONS, TRAPS, OF EVERY DESCRIPTION. Drawings, with prices, &c., will be forwarded free on application as above.



WILLIAM NORTHEN'S

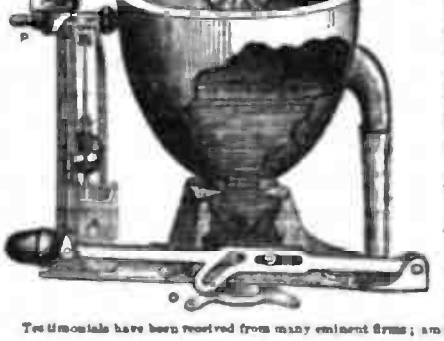
WHITE ENAMELLED STONEWARE,

UNION POTTERY, 14, VAUXHALL-WALK, LAMBETH, LONDON.

W. N. solicits an inspection of his IMPROVED WHITE ENAMELLED STONEWARE CLOSET PANS, being an entire new description of stoneware, perfectly vitrified and highly glazed, far surpassing anything of the kind yet offered to the public.

SAME PRICE AS BROWN STONEWARE—7s. 6d. Pan and Trap. WITH BLUE INSIDE, ENAMEL, 1s. extra.

IMPORTANT TO GENTLEMEN CONNECTED WITH SANITARY MEASURES, ARCHITECTS, BUILDERS, PLUMBERS, AND OTHERS.



F. C. UNDERHAY'S PATENT APPARATUS, or REGULATOR, attached to all kinds of Closets, entirely dispenses with the use of CISTERNS, Service Boxes, Cranks, Wires, &c. making a Closet as simple to fix as a Bib Cock, and insuring ANY REQUIRED FLUSH OF WATER, which may be by it regulated at pleasure, under all variations of pressure; an object never before obtained without the complicated arrangement of Service Boxes and Cranks.

CHARLES BOTTEN and SON, in drawing the attention of the Trade to the above invention, of which they are the Manufacturers, beg to say that they are warranted in saying that it possesses the great superiority in SIMPLICITY, CHEAPNESS, and DURABILITY, of this over all other modes of fixing Closets of all kinds. They have several fixed for Inspection at their Factory, and solicit a call from all parties interested.

C. B. and SON are prepared to supply JENNINGS'S INDIAN RUBBER TURN CLOSETS (of which they are Licensed Manufacturers), GREATLY IMPROVED, SIMPLIFIED, and REDUCED in COST, by the addition of the Patent Regulator, DISPENSING with the FIXED CISTERN and all its appendages, and obtaining an UNCHECKED flush of water from the cistern or main.

They would also draw attention to UNDERHAY'S HIGH-PRESSURE CAM VALVES which have given great satisfaction for some years, as the increasing demand for them abundantly testifies. They are full way, very simple, and applied to all the purposes of ordinary Plug Taps.

Testimonials have been received from many eminent firms; among others the following:—

"London Works, near Birmingham.

"Dear Sir,—We have used many of your Patent Ball Valves, and find that they answer their purpose exceedingly well, and are very certain in their action.—We are, yours obediently,

"FOX, HENDERSON, and Co."

"Messrs. Fox, Henderson, and Co. fixed a 3-inch one at the Great Exhibition, to supply the water to the Building, which gave great satisfaction.

CHARLES BOTTEN AND SON,

ENGINEERS, BRASS FOUNDERS, GAS METER AND FITTING MANUFACTURERS,
Crawford Passage, Hay-street, Clerkenwell, London.

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